

Form PTO-1449 INFORMATION DISCLOSURE CITATION IN AN APPLICATION (Use several sheets if necessary)		Docket Number (Optional) 2269-4974.2US (00-0693.02/US)	Application Number Not Yet Assigned 10/829,603
		Applicant Teck Kheng Lee	
		Filing Date April 22, 2004	Group Art Unit Unknown 2812

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
SBG	4,807,021	02/1989	Okumura	—	—	
SBG	5,347,159	09/1994	Khandros et al.	—	—	
SBG	5,366,794	11/1994	Nakao	—	—	
SBG	5,385,869	01/1995	Liu et al.	—	—	
SBG	5,386,341	01/1995	Olson et al.	—	—	
SBG	5,397,921	03/1995	Kamezos	—	—	
SBG	5,409,865	04/1995	Karnezos	—	—	
SBG	5,422,205	06/1995	Inoue et al.	—	—	
SBG	5,438,477	08/1995	Pasch	—	—	
SBG	5,448,511	09/1995	Paurus et al.	—	—	
SBG	5,504,277	04/1996	Danner	—	—	

FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	APPLICANT	CLASS	SUBCLASS	Translation	
						YES	NO
SBG	WO 99/65282	12/1999	Eide	—	—		
SBG	JP 2002-028702/04	09/1999	Katsumasa	—	—		
SBG	JP 2000-183082	06/2000	Hitachi Ltd.	—	—		

OTHER DOCUMENTS

(Including Author, Title, Date, Pertinent Pages, Etc.)

SBG	U. S. Patent Application entitled MICROELECTRONIC DEVICES AND METHODS OF MANUFACTURE, filed August 30, 2001, Serial No. 09/944,465.
SBG	ISAAK, H. et al., "Development of Flex Stackable Carriers" IEEE Electronic Components and Technology Conference, 2000 Proceedings 50th, 5/21/2000-5/24/2000, Las Vegas, NV, USA, pp. 378-84, IEEE Catalog No: 00CH37070.
SBG	Copy of Australian Patent Office, Search Report, 30 May 2003, 4 pages.

EXAMINER

AB. S.

DATE CONSIDERED

2-1-06

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.

<p>Form PTO-1449</p> <p>INFORMATION DISCLOSURE CITATION IN AN APPLICATION</p> <p><i>(Use several sheets if necessary)</i></p>	<p>Docket Number (Optional) 2269-4974.US (00-0693.02/US)</p>	<p>Application Number Not Yet Assigned 10 / 829,603</p>
		Applicant Teck Kheng Lee
		Filing Date April 22, 2004
		Group Art Unit Unknown

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
SBG	5,598,033	01/1997	Behlen et al.	—	—	
SBG	5,646,446	07/1997	Nicewarner, Jr. et al.	—	—	
SBG	5,663,530	09/1997	Schueller et al.	—	—	
SBG	5,668,405	09/1997	Yamashita	—	—	
SBG	5,674,785	10/1997	Akram et al.	—	—	
SBG	5,697,148	12/1997	Lance, Jr. et al.	—	—	
SBG	5,710,071	01/1998	Beddingfield et al.	—	—	
SBG	5,719,449	02/1998	Strauss	—	—	
SBG	5,721,151	02/1998	Padmanabhan et al.	—	—	
SBG	5,739,585	04/1998	Akram et al.	—	—	
SBG	5,747,982	05/1998	Dromgoole et al.	—	—	

FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
						YES	NO

OTHER DOCUMENTS

(Including Author, Title, Date, Pertinent Pages, Etc.)

A large, empty rectangular space for drawing or writing, preceded by a grid of 12 small squares arranged in three rows and four columns. The first column contains a curved line starting from the top-left corner and extending downwards.

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			Applicant Teck Kheng Lee	
			Filing Date April 22, 2004	2-812 Group Art Unit Unknown

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
SBG	5,752,182	05/1998	Nakatsuka et al.	—	—	
SBG	5,758,413	06/1998	Chong et al.	—	—	
SBG	5,798,285	08/1998	Bentlage et al.	—	—	
SBG	5,798,567	08/1998	Kelly et al.	—	—	
SBG	5,805,422	09/1998	Otake et al.	—	—	
SBG	5,818,113	10/1998	Iseki et al.	—	—	
SBG	5,834,338	11/1998	Takeda et al.	—	—	
SBG	5,834,366	11/1998	Akram	—	—	
SBG	5,834,848	11/1998	Iwasaki	—	—	
SBG	5,835,355	11/1998	Dordi	—	—	
SBG	5,843,808	12/1998	Kamezos	—	—	

FOREIGN PATENT DOCUMENTS

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						YES	NO

OTHER DOCUMENTS

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<i>H.B. B</i>	2-1-06

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EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
SO6	5,844,168	12/1998	Schueller et al.	—	—	
SB6	5,866,953	02/1999	Akram et al.	—	—	
SD6	5,886,408	03/1999	Ohki et al.	—	—	
SO6	5,891,753	04/1999	Akram	—	—	
SD6	5,898,224	04/1999	Akram	—	—	
SB6	5,973,389	10/1999	Culnane et al.	—	—	
SO6	5,973,404	10/1999	Akram et al.	—	—	
SB6	5,977,640	11/1999	Bertin et al.	—	—	
SB6	5,982,030	11/1999	MacIntyre	—	—	
SB6	5,984,691	11/1999	Brodsky et al.	—	—	
SD6	5,990,545	11/1999	Schueller et al.	—	—	
FOREIGN PATENT DOCUMENTS						
	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation
						YES
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)						
EXAMINER <i>SO6</i>		DATE CONSIDERED <i>2-1-06</i>				
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U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
SBG	5,991,161	11/1999	Samaras et al.	—	—	
SBG	6,005,776	12/1999	Holman et al.	—	—	
SBG	6,008,543	12/1999	Iwabuchi	—	—	
SOG	6,011,694	01/2000	Hirakawa	—	—	
SBG	6,013,948	01/2000	Akram et al.	—	—	
SBG	6,020,629	02/2000	Farnworth et al.	—	—	
SBG	6,024,584	02/2000	Lemke et al.	—	—	
SBG	6,027,346	02/2000	Sinsheimer et al.	—	—	
SBG	6,028,365	02/2000	Akram et al.	—	—	
SBG	6,034,427	03/2000	Lan et al.	—	—	
SOG	6,039,889	03/2000	Zhang et al.	—	—	

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U.S. PATENT DOCUMENTS

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SBG	6,040,630	03/2000	Panchou et al.	—	—	
SBG	6,050,832	04/2000	Lee et al.	—	—	
SBG	6,057,178	05/2000	Galuschki et al.	—	—	
SBG	6,060,782	05/2000	Ohsono et al.	—	—	
SBG	6,064,114	05/2000	Higgins, III	—	—	
SBG	6,072,233	06/2000	Corisis et al.	—	—	
SBG	6,074,897	06/2000	Degani et al.	—	—	
SBG	6,075,710	06/2000	Lau	—	—	
SBG	6,079,991	06/2000	Lemke et al.	—	—	
SBG	6,093,035	07/2000	Lemke et al.	—	—	
SBG	6,116,921	09/2000	Scholz et al.	—	—	

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U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
SBG	6,124,631	09/2000	Cardot et al.	—	—	
SBG	6,127,736	10/2000	Akram	—	—	
SBG	6,137,062	10/2000	Zimmerman	—	—	
SBG	6,137,164	10/2000	Yew et al.	—	—	
SBG	6,137,183	10/2000	Sako	—	—	
SBG	6,157,541	12/2000	Hacke	—	—	
SBG	6,165,885	12/2000	Gaynes et al.	—	—	
SBG	6,172,422 B1	01/2001	Chigawa et al.	—	—	
SBG	6,179,598 B1	01/2001	Brand	—	—	
SBG	6,191,487 B1	02/2001	Rodenbeck et al.	—	—	
SBG	6,208,521 B1	03/2001	Nakatsuka	—	—	

FOREIGN PATENT DOCUMENTS

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			Applicant Teck Kheng Lee	
			Filing Date April 22, 2004	Group Art Unit Unknown

U.S. PATENT DOCUMENTS

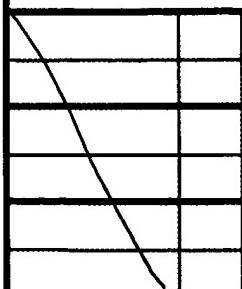
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
SBG	6,212,768 B1	04/2001	Murakami	—	—	
SBG	6,214,156 B1	04/2001	Takano et al.	—	—	
SBG	6,218,202 B1	04/2001	Yew et al.	—	—	
SBG	6,219,911 B1	04/2001	Estes et al.	—	—	
SBG	6,221,763 B1	04/2001	Gilton et al.	—	—	
SBG	6,225,688 B1	05/2001	Kim et al.	—	—	
SBG	6,229,711 B1	05/2001	Yoneda	—	—	
SBF	6,262,895 B1	07/2001	Forthun	—	—	
SBG	6,291,775 B1	09/2001	Saitoh	—	—	
SBG	6,294,455 B1	09/2001	Ahn	—	—	
SBG	6,300,679 B1	10/2001	Mukerji et al.	—	—	

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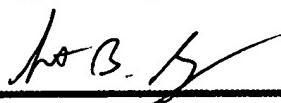
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U.S. PATENT DOCUMENTS

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SBG	6,310,288 B1	10/2001	Moden	—	—	
SBG	6,323,060 B1	11/2001	Isaak	—	—	
SBG	6,413,102 B2	07/2002	Jiang et al.	—	—	
SBG	6,429,516 B1	08/2002	Tsunoi	—	—	
SBG	6,432,737 B1	08/2002	Webster	—	—	
SBG	2002/0167092 A1	11/2002	Fee et al.	—	—	
SBG	6,489,687 B1	12/2002	Hashimoto	—	—	
SBG	6,492,737 B1	12/2002	Imasu et al.	—	—	
SBG	6,518,677 B1	02/2003	Capote et al.	—	—	

FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
						YES	NO

OTHER DOCUMENTS

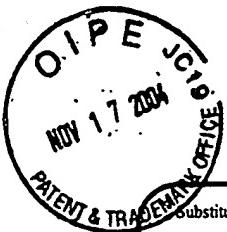
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PTO/SB/08A (10-01)

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet

1

of

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<i>Complete if Known</i>	
Application Number	10/829,603
Filing Date	April 22, 2004
First Named Inventor	Teck Kheng Lee
Group Art Unit	2823 2 812
Examiner Name	Unknown
Attorney Docket Number	2269-4974.2US (00-0693.02/US)

U.S. PATENT DOCUMENTS				
Examiner Initials *	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document
		Number - Kind Code ² (if known)		
SBG		US-3,239,496	03/1966	Jursich
SOG		US- 4,074,342	02/1978	Honn et al.
SBG		US- 4,818,728	04/1989	Rai et al.
SOG		US- 5,148,265	09/1992	Khandros et al.
SBG		US- 5,346,861	09/1994	Khandros et al.
SBG		US- 5,404,044	04/1995	Booth et al.
SBG		US- 5,468,681	11/1995	Pasch
SBG		US- 5,489,804	02/1996	Pasch
SBG		US- 5,679,977	10/1997	Khandros et al.
SBG		US- 5,683,942	11/1997	Kata et al.
SOG		US- 5,742,100	04/1998	Schroeder et al.
SBG		US- 5,777,391	07/1998	Nakamura et al.
SBG		US- 5,821,624	10/1998	Pasch
SBG		US- 5,905,303	05/1999	Kata et al.
SBG		US- 6,022,761	02/2000	Grupen-Shemansky et al.
SBG		US- 6,048,755	04/2000	Jiang et al.
SBG		US- 6,133,637	10/2000	Hikita et al.
SBG		US- 6,177,723	01/2001	Eng et al.
SBG		US- 6,217,343	04/2001	Okuno
SBG		US- 6,222,265	04/2001	Akram et al.

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Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document
		Country Code ³ - Number ⁴ - Kind Code ⁵ (if known)		
SOG		EP 684644	11/1995	Kata et al.
SBG		EP 1009027	06/2000	Okuno
SBG		KR 2001054744	07/2001	Choi et al. (English Abstract)

Examiner Signature	<i>At Q. S.</i>	Date Considered	2-1-06
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**INFORMATION DISCLOSURE
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(use as many sheets as necessary)

Sheet

2

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Application Number	10/829,603
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First Named Inventor	Teck Kheng Lee
Group Art Unit	2823 2812
Examiner Name	Unknown

Attorney Docket Number

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		Number - Kind Code ³ (if known)			
SOG		US - 6,232,666	05/2001	Corisis et al.	
SBG		US - 6,242,932	06/2001	Hembree	
SOG		US - 6,265,775	07/2001	Seyyedy	
SBG		US - 6,291,265	09/2001	Mess	
SBG		US - 6,295,730	10/2001	Akram	
SBG		US - 6,338,985	01/2002	Greenwood	
SBG		US - 6,468,831	10/2002	Leong et al.	
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SBG		US - 6,515,324 B2	02/2003	Shibuya et al.	
SBG		US - 6,586,830 B2	07/2003	Saito	
SBG		US - 6,714,418	03/2004	Frankowsky et al.	
SBG		US - 6,744,122	06/2004	Hashimoto	
SBG		US - 6,756,251	06/2004	Lee	
SBG		US - 6,791,195	09/2004	Urushima	
SBG		US - 2002/0045611 A1	04/2002	Abrams et al.	
SBG		US - 2002/0079594 A1	06/2002	Sakurai	
SBG		US - 2002/0142513 A1	10/2002	Fee et al.	
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SBG		US - 2003/0134450 A1	07/2003	Lee	

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Examiner Signature

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Group Art Unit	2023 2812
Examiner Name	Unknown

Attorney Docket Number 2269-4974.2US (00-0693.02/US)

NON PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
S06		AL-SARAWI et al., A review of 3-D packaging technology. @ Components, Packaging, and Manufacturing Technology, Part B: IEEE Transactions on Advanced Packaging, Vol 21, Issue 1, Feb. 1998, pp. 2-14.	
SBG		ANDROS et al., A TBGA Package Technology. @ Components, Packaging, and Manufacturing Technology, Part B: IEEE Transactions on Advanced Packaging, Vol. 17, Issue 4, Nov. 1994, pp. 564-568.	
SBG		CLOT et al., A Flip-Chip on Flex for 3D Packaging. @ 1999. 24th IEEE/CPMT, 18-19 Oct. 1999, pp. 36-41.	
SBG		FERRANDO et al., A Industrial approach of a flip-chip method using the stud-bumps with a non-conductive paste. @ Adhesive Joining and Coating Technology in Electronics Manufacturing, 2000. Proceedings. 4th International Conference on, 18-21 June 2000, pp. 205-211.	
SBG		GALLAGHER et al., A Fully Additive, Polymeric Process for the Fabrication and Assembly of Substrate and Component Level Packaging. @ The First IEEE International Symposium on Polymeric Electronics Packaging, 26-30, Oct. 1997, pp. 56-63.	
S06		GEISSINGER et al., A Tape Based CSP Package Supports Fine Pitch Wirebonding. @ Electronics Manufacturing Technology Symposium, 2002, IEMT 2002, 27th Annual IEEE/SEMI International, 17-18 July 2002, pp. 41-452.	
S06		HATANAKA, H., A Packaging processes using flip chip bonder and future directions of technology development. @ Electronics Packaging Technology Conference, 2002. 4th, 10-12, Dec. 2002, pp. 434-439.	
SBG		HAUG et al., A Low-Cost Direct Chip Attach: Comparison of SMD Compatible FC Soldering with Anisotropically Conductive Adhesive FC Bonding. @ IEEE Transactions on Electronics Packaging Manufacturing, Vol. 23, No. 1, Jan 2000, pp. 12-18.	
SBG		KLOESER et al., A Fine Pitch Stencil Printing of Sn/Pb and Lead Free Solders for Flip Chip Technology. @ IEEE Transactions of CPMT - Part C, vol. 21, No. 1, 1998, pp. 41-49.	
S06		LEE et al., A Enhancement of Moisture Sensitivity Performance of a FBGA. @ Proceedings of International Symposium on Electronic Materials & Packaging, 2000, pp. 470-475.	
S06		LI et al., A Stencil Printing Process Development for Flip Chip Interconnect. @ IEEE Transactions Part C: Electronics Packaging Manufacturing, Vol. 23, Issue 3, (July 2000), pp. 165-170.	

Examiner Signature	<i>N.C. S.</i>	Date Considered	2-1-06
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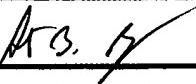
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Substitute for form 1449 A/PTO				<i>Complete if Known</i>	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Application Number	10/829,603
(use as many sheets as necessary)				Filing Date	April 22, 2004
Sheet	4	of	4	First Named Inventor	Teck Kheng Lee
				Group Art Unit	2023-2812
				Examiner Name	Unknown
				Attorney Docket Number	2269-4974.21US (00-0693.02/1US)

NON PATENT LITERATURE DOCUMENTS					
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SBG		LYONS et al., "A New Approach to Using Anisotropically Conductive Adhesives for Flip-Chip Assembly, Part A," <i>IEEE Transactions on Components, Packaging, and Manufacturing Technology</i> , Vol. 19, Issue 1, March 1996, pp. 5-11.			
SBG		TEO et al., "Enhancing Moisture Resistance of PBGA," <i>Electronic Components and Technology Conference</i> , 1988. 48 th IEEE, 25-28 May 1998, pp. 930-935.			
SBG		TEUTSCH et al., "Wafer Level CSP using Low Cost Electroless Redistribution Layer," <i>Electronic Components and Technology Conference</i> , 2000. 2000 Proceedings. 50 th , 21-24 May 2000, pp. Pages: 107-113.			
SBG		"The 2003 International Technology Roadmap for Semiconductor: Assembly and Packaging."			
SBG		TSUI et al., "Pad redistribution technology for flip chip applications," <i>Electronic Components and Technology Conference</i> , 1998. 48 th IEEE, 25-28 May 1998, pp. 1098-1102.			
SBG		XIAO et al., "Reliability study and failure analysis of fine pitch solder-bumped flip chip on low-cost flexible substrate without using stiffener," IEEE, 2002. Proceedings 52 nd , 28-31 May 2002, pp. 112-118.			

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Form PTO-1449 O INFORMATION DISCLOSURE CITATION IN AN APPLICATION <small>(Use several sheets if necessary)</small>		Docket Number (Optional) 2269-4974.2US (00-0693.02/US)	Application Number 10/829,603			
		Applicant Teck Kheng Lee				
		Filing Date April 22, 2004	Group Art Unit 2023-2812			
U.S. PATENT DOCUMENTS						
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
SBG	5,723,347	03/1998	Hirano et al.	—	—	
SBG	5,812,378	09/1998	Fjelstad et al.	—	—	
SBG	5,892,271	04/1999	Takeda et al.	—	—	
SBG	5,986,460	11/1999	Kawakami	—	—	
SBG	6,133,072	10/2000	Fjelstad	—	—	
SBG	6,208,525	03/2001	Imasu et al.	—	—	
SBG	6,271,469	08/2001	Ma et al.	—	—	
SBG	6,281,046	08/2001	Lam	—	—	
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SBG	2004/0217454 A1	11/2004	Brechignac et al.	—	—	
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<p>Applicant Teck Kheng Lee</p>		
<p>Filing Date April 22, 2004</p>		<p>Group Art Unit 2812</p>

U.S. PATENT DOCUMENTS

FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
						YES	NO
S B G	JP 04030456	02/1992	Yamaguchi	—	—	X	
S B G	EP 0475022 A1	03/1992	Grube et al.	—	—	X	
S B G	EP 0997942 A2	05/2000	Horiuchi et al.	—	—	X	
S B G	JP 02000230964	08/2000	Hikita	—	—	X	
S B G	JP 2001077294	03/2001	Hashimoto	—	—	X	

OTHER DOCUMENTS

(Including Author, Title, Date, Pertinent Pages, Etc.)

S86	Australian Search Report dated 11 Aug 2004 (3 pages).
S86	Australian Search Report dated 16 Aug 2004 (4 pages).
S86	Australian Search Report dated 08 Nov 2004 (5 pages).

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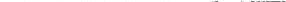
INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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 Information Disclosure Statement by Applicant <i>(use as many sheets as necessary)</i>		<i>Complete if Known</i>	
		Application Number	10/829,603
		Filing Date	April 22, 2004
		First Named Inventor	Teck Kheng Lee
		Group Art Unit	2823 2812
		Examiner Name	Unknown
Sheet	1	of	1
		Attorney Docket Number	
		2269-4974.2US (00-0693.02/US)	

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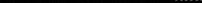
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Substitute for form 1449A/PTO				<i>Complete if Known</i>	
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				Examiner Name	Unknown
(use as many sheets as necessary)				Attorney Docket Number	
Sheet	1	of	1	2269-4974.2US (00-0693.02/US)	

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Complete if Known

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